



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/729,039
Applicant : Williams
Filed : December 5, 2003
Title : SOLUBLE RECOMBINANT BOTULINUM TOXIN PROTEINS

TC/A.U. : 1600/1645
Examiner : PORTNER, V.A.

Docket No. : D2939-CIPCONDIV4

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.	
Date:	May 13, 2005
By:	James M. Porter

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Applicant wishes to call to the attention of the Examiner the documents cited on the accompanying Form PTO-1449. The cited documents were either considered in one or more related applications or are applications related to the above-identified application. This communication is being submitted under 37 C.F.R. 1.97(c)(2). The Commissioner is hereby authorized to charge the necessary fee to Deposit Account No. 01-0885.

Each of these documents was cited in related (parent) application Serial No. 10/271,012 filed October 15, 2002. Therefore, no copies of these documents are submitted herewith. Applicant requests that each of these documents be made of record in the above-identified application.

Date: 5/13/05

Respectfully submitted,

Frank J. Uxa
Registration No. 25,612
Stout, Uxa, Buyan & Mullins, LLP
4 Venture, Suite 300
Irvine, California 92618
Telephone: 949-450-1750



Form PTO-1449		Docket No.: D2939-CIPCONDIV4		Application No.: 10/729,039			
INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)		Applicant: Williams					
		Filing Date: December 5, 2003		Group Art Unit: 1645			
U. S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4,664,911	05/1987	Uhr et al.				
	5,071,759	12/1991	Rothman et al.				
	5,196,193	03/1993	Carroll				
	5,268,295	12/1993	Serrero				
	5,410,019	04/1995	Coy et al.				
	5,837,264	11/1998	Becker et al.				
	5,891,842	04/1999	Kream				
	5,939,070	08/1999	Johnson et al.				
	5,989,545	11/1999	Foster et al.				
	6,022,950	02/2000	Murphy				
	6,051,239	04/2000	Simpson et al.				
	6,545,126	04/2003	Johnson et al.				
	6,787,517	09/2004	Gil et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	93/05800	04/1993	WO				
	94/13264	06/1994	WO				
	94/21684	09-1994	WO				
	95/32738	12/1995	WO				
	96/05222	02/1996	WO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AA	Maisey et al., (1988) Eur. J. Biochem 177:683-691					
	AB	Rudinger, J. in Peptide Hormones, Parsons, J.A. (Ed.) Univ. Park Press, Baltimore, MD pp. 1-7.					
	AC	Roitt, I. Essential Immun., 6 th Edition, Blackwell Scientific Publications, Boston, MA, pp. 173-178.					
	AD	LeClerc, C. et al. J. Immunol. 144(8): 3174-3182					
	AE	Kleid, D.G. Annals NY Acad. Sci. 413:23-30.					
	AF	Siegel, L.J. Clin. Microbiol. 26: 2351-2356.					
EXAMINER			DATE CONSIDERED				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

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	6,214,602	04/2001	Zdanovsky		
	6,395,513	05/2002	Foster et al.		
	6,444,209	09/2002	Johnson et al.		
	6,822,076	11/2004	Bilgalke et al.		
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS TRANSLATION YES NO
	EP 0 282 042	09/1988	Europe		
	EP 0 593 176	04/1994	Europe		
	GB 2 272 697	05/1994	Great Britain		
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)					
	AG	Beitle et al., "One-step purification of a model periplasmic protein from inclusion bodies by its fusion to an effective metal-binding peptide", Biotechnology Progress, Vol. 9, pp 64-69 (1993).			
	AH	Kamiya et al., "Production of Monoclonal Antibody to Clostridium Difficile Toxin A Which Neutralizes Enterotoxicity But Not Haemagglutination Activity", FEMS Microbiology Letters, Vol. 81, pages 311-316 (1991)			
	AI	Hatheway, "Toxigenic Clostridia", Clin. Microbiology Reviews, Vol. 3, No. 1, pages 66-98 (1990)			
	AJ	Coughlin et al., Characterization of six murine monoclonal antibodies specific for toxin B of Clostridium difficile", Hybridoma, Vol. 13, pages 147-152 (1994).			
	AK	Hochuli et al., "Generic approach to facilitate purification of recombinant proteins with a novel metal chelate adsorbent", Biotechnology, Vol. 6, pages 1321-1325 (1988).			
	AL	Lilius et al., "Metal affinity precipitation of proteins carrying genetically attached polyhistidine affinity tails", Eur. J. Biochem., Vol. 198, pages 499-504 (1991).			
	AM	Wiedemann et al., "Chicken egg antibodies for prophylaxis and therapy of infectious intestinal diseases", J. Vet. Med., Vol. 38, pages 283-291 (1991).			
	AN	Handl et al., High yield of active STb enterotoxin from a fusion protein (MBP-STb) expressed in E. Coli", Protein Expression and Purification, Vol. 4, pages 275-281 (1993).			
	AO	Von Eichel-Streiber et al., "Cloning of Clostridium difficile toxin B gene and demonstration of high N-terminal homology between A and B", Med. Microbiol. Immunol., Vol. 179, pp 271-279 (1990).			
	AP	Kim et al, Characterization of protective antibodies in hamsters immunized against Clostridium difficile toxins A and B", Microbial Ecology in Health and Disease, Vol. 2, pp 47-59 (1989).			
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	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
						YES NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)						
	AQ	Zhou et al., "Expression and Purification of the Light Chain of Botulinum Neurotoxin A: A single mutation abolishes its Cleavage of SNAP-25 and Neurotoxicity after reconstruction with the Heavy Chain", Biochemistry, Vol. 34, No. 46, pages 15175-15181 (1995)				
	AR	Clayton et al, "Protective vaccination With a Recombinant Fragment of Clostridium Botulinum Neurotoxin Serotype A Expressed from a Synthetic Gene in E Coli", Infection and Immunity, Vol. 63, No. 7, pages 2738-2742 (1995).				
	AS	Schiavo et al, "Tetanus and Botulinum-B Neurotoxins Block Neurotransmitter Release by Proteolytic Cleavage of Synaptobrevin", Nature, Vol. 359, pages 832-835 (1992)				
	AT	Kriegelstein et al., J. Protein Chem. 1994 Jan; 13(1):49-57.				
	AU	Hutson et al., FEMS Microbiol Lett. 1993 Mar 15; 108(1):103-10.				
	AV	Szabo et al., Appl Environ. Microbiol, 1993, 59(9):3011-3020.				
	AW	Minton et al., "Host: Vector systems for gene cloning in Clostridium", Microbiological Sciences, 5(10):310-315 (1988).				
	AX	Jung et al, "Cloning of a Clostridium botulinum type B toxin gene fragment encoding the N-terminus of the heavy chain", FEMS Microbiol. Lett., 70(1):69-72 (1992).				
	AY	Campbell et al., "Gene Probes for Identification of the Botulinal Neurotoxin Gene and Specific Identification of Neurotoxin Types B, E, and F", Jour. Clin. Microbiology, Vol. 31, No. 9, pages 2255-2262 (1993).				
	AZ	Hauser et al., "Nucleotide sequence of Clostridium botulinum C1 neurotoxin", Nucleic Acids Research, Vol. 18, No. 16, page 4924 (1990).				
	BA	Mierendorf et al, "The pET System: Your choice for Expression", inNovations, Newsletter of Novagen, Inc., Vol. 1, No. 1, pp 1-3, May 1994.				
	BB	Moberg et al., "Affinity Chromatography Purification of Type A Botulinum Neurotoxin from Crystalline Toxin Complex", Applied and Environ. Microbiology, Vol. 35, No. 5, pp 878-880 (1978).				
	BC	Kimura K., English abstract: "The structure and function of botulinum type C neurotoxin", Hokkaido Igaku Zasshi [Article in Japanese], 1991 Nov; 66(6):841-8.				
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